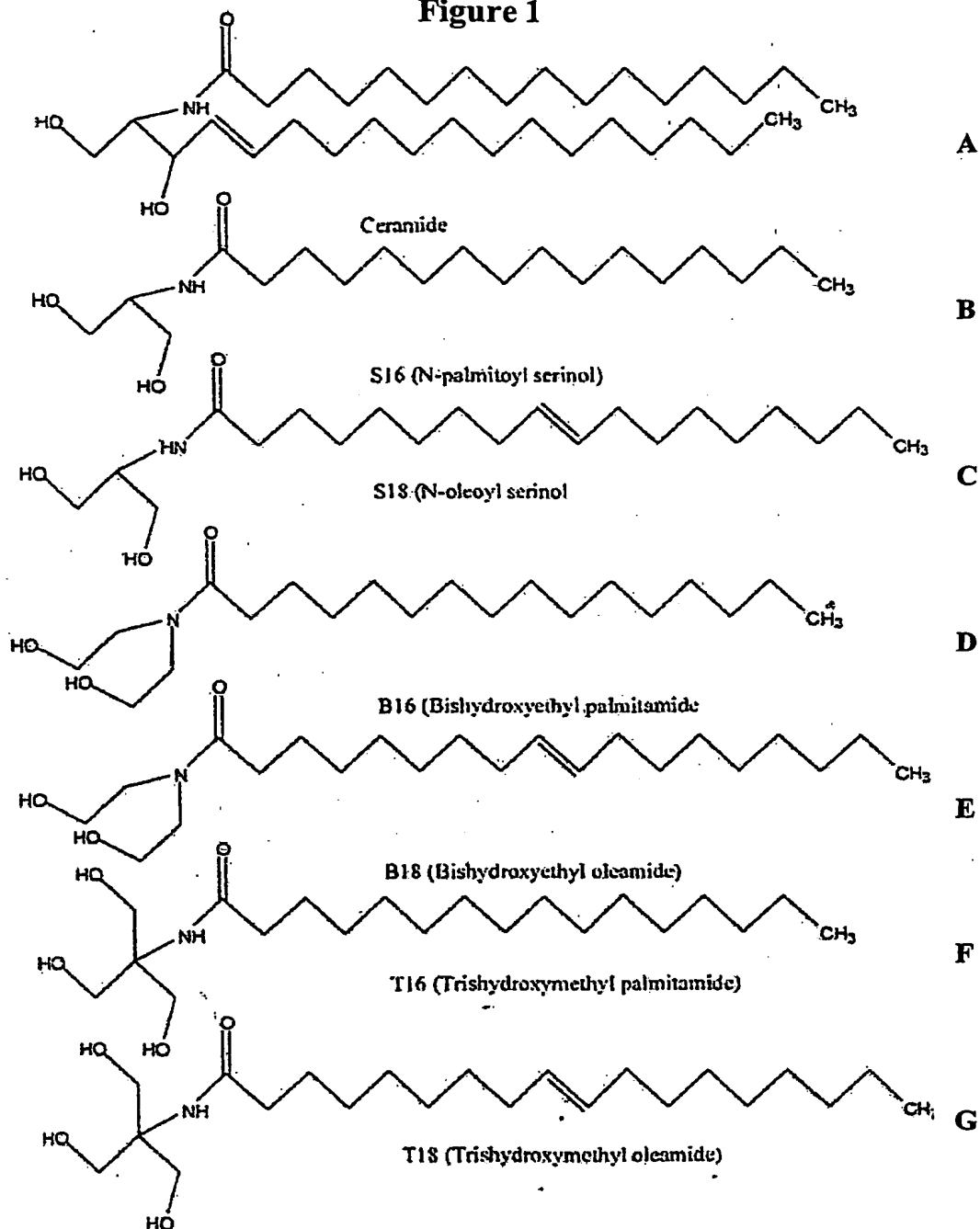


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Figure 1



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Figure 2

DIV 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
ES								EB									NP				D			
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	9	1	2	3	4	1	2	3	4
serum + LIF								serum w/o LIF				no serum +N2				no serum + N2 + FGF-2				serum				

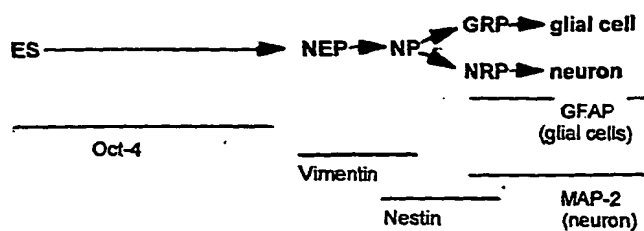
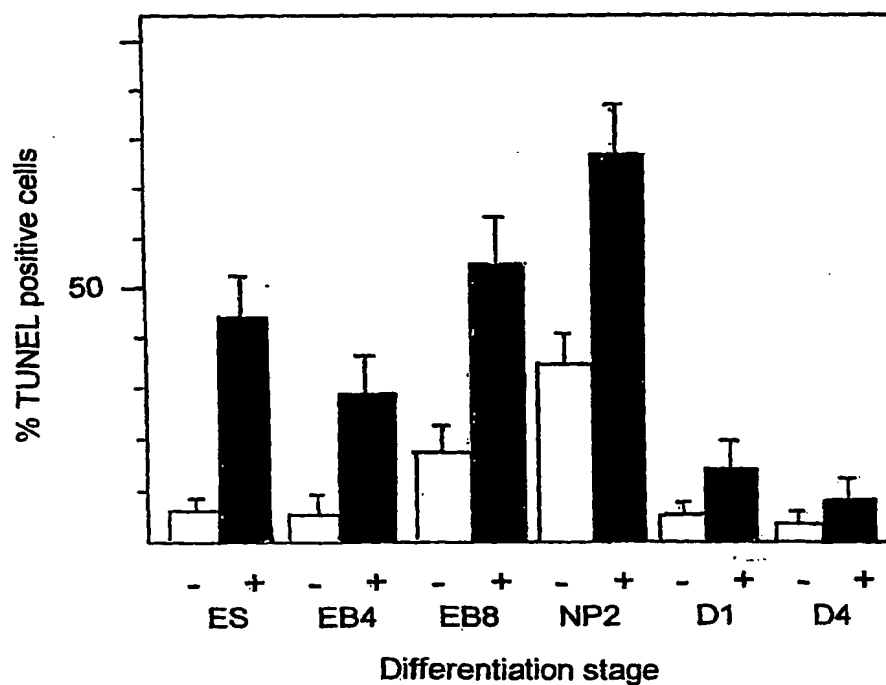


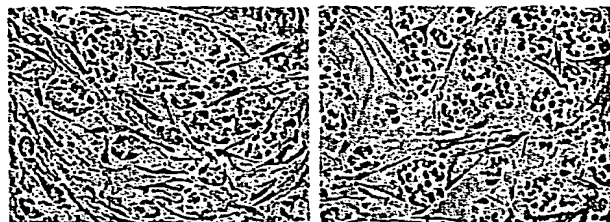
Figure 3



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Figure 4

ES cells on feeder fibroblasts (ES3)



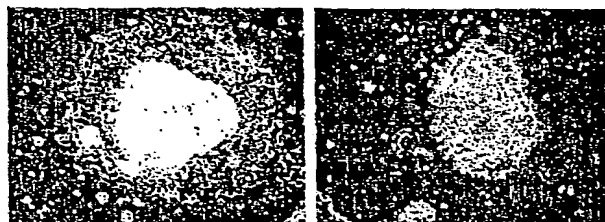
A

-

B

+

Early EB (EB4)



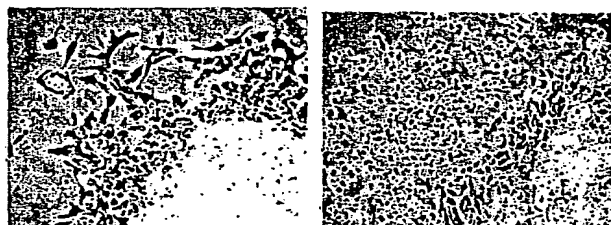
C

-

D

+

Late EB (EB8)



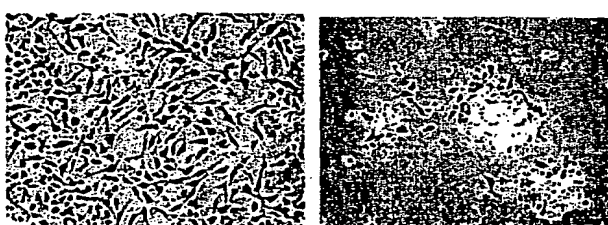
E

-

F

+

Neuroprogenitor stage (NP2)



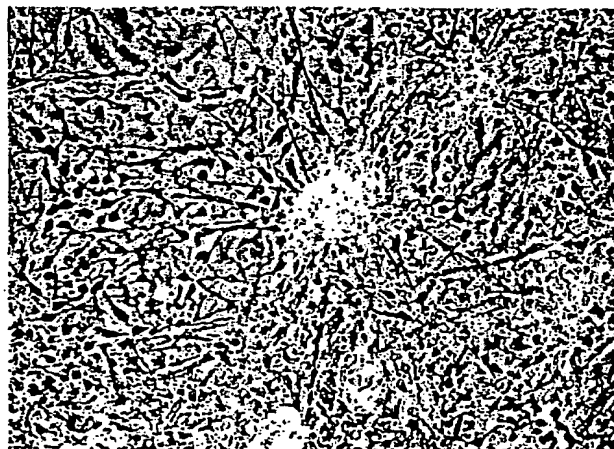
G

-

H

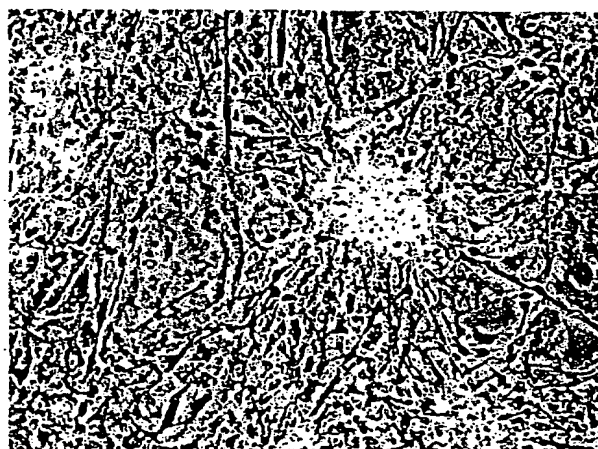
+

Differentiated neurons (D4)



I

-



J

+

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Figure 5

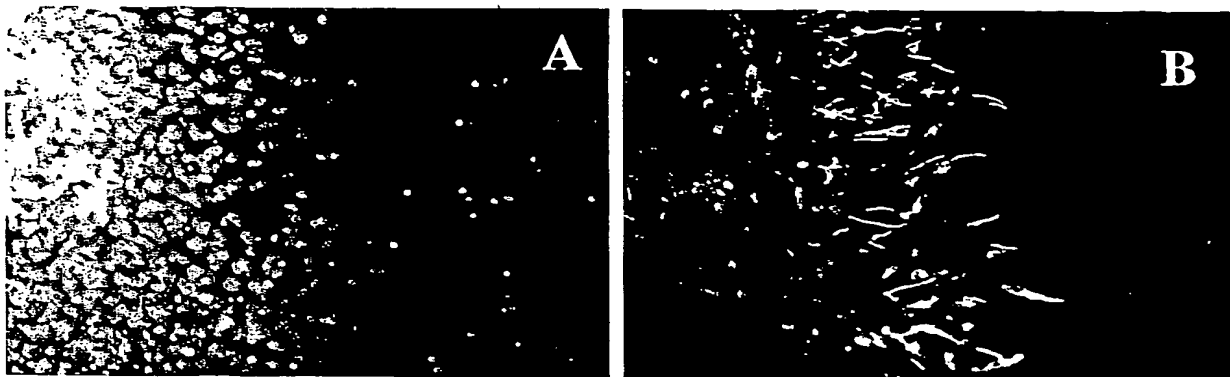


Figure 6

TUNEL	PAR-4	Ceramide	Nestin	PCNA	
TUNEL	-	59	60	5	48
PAR-4	59	-	62	11	n.d.
Ceramide	60	62	-	n.d.	n.d.
Nestin	5	11	n.d.	-	51
PCNA	48	n.d.	n.d.	51	-

Total cell count: 200

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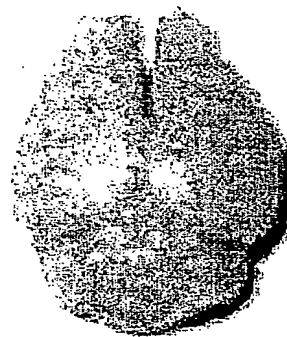
Figure 7

A



Untreated stem cells

B



S18-treated stem cells

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Figure 8

Injection of untreated EB8-derived embryonic stem cells

A

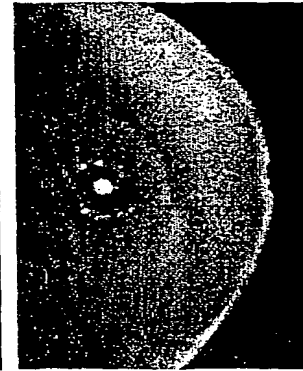
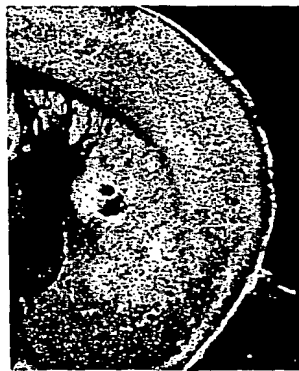
B

C

D

Injection site

Migration site



Phase contrast

Vybrant dil

Phase contrast

Vybrant dil

Injection of S18-treated EB8-derived embryonic stem cells

E

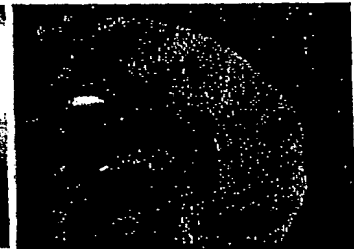
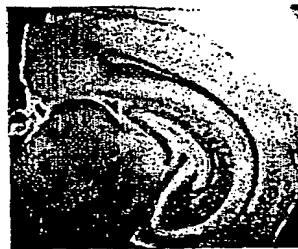
F

G

H

Injection site

Migration site



Phase contrast

Vybrant dil

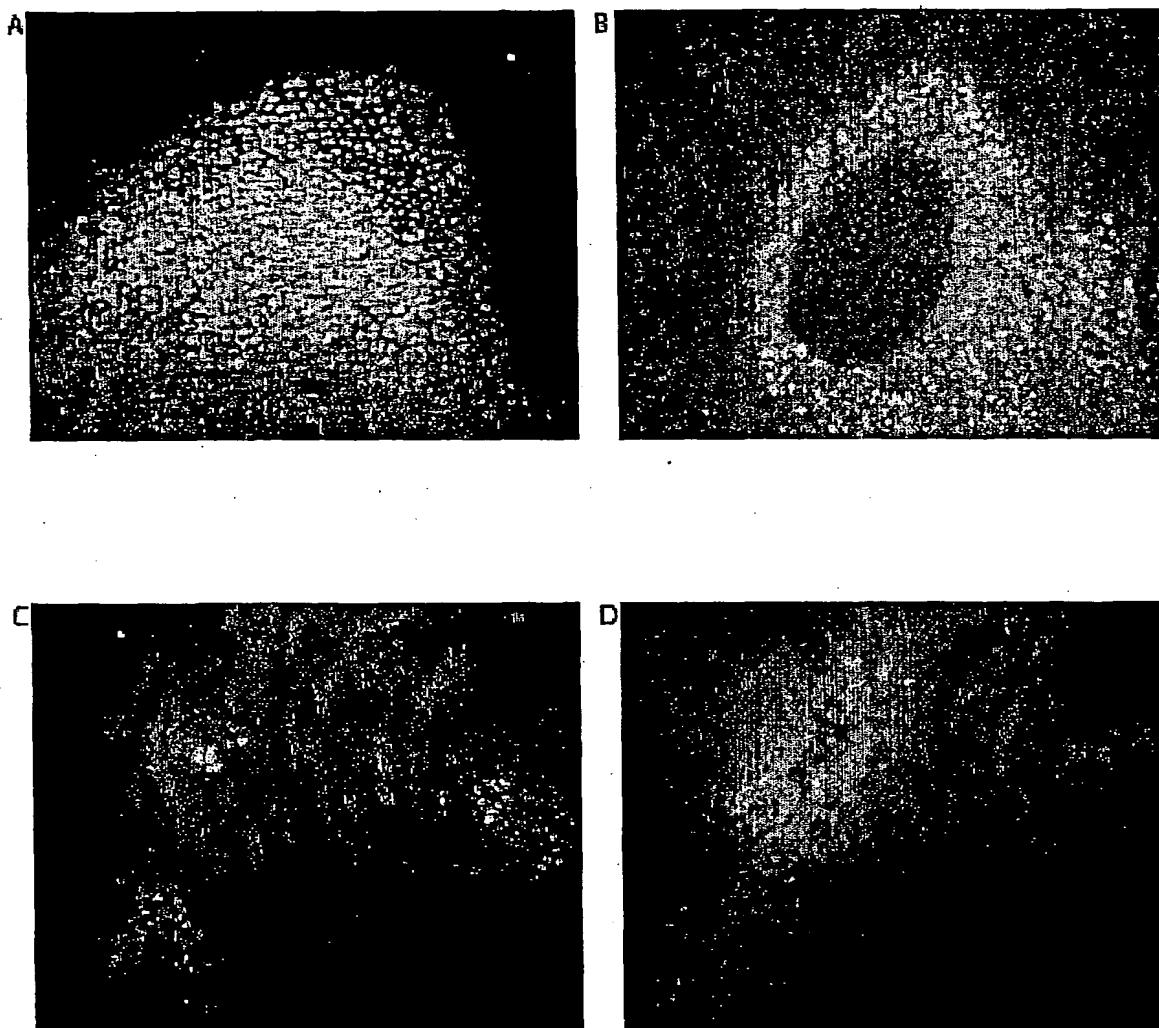
Phase contrast

Vybrant dil

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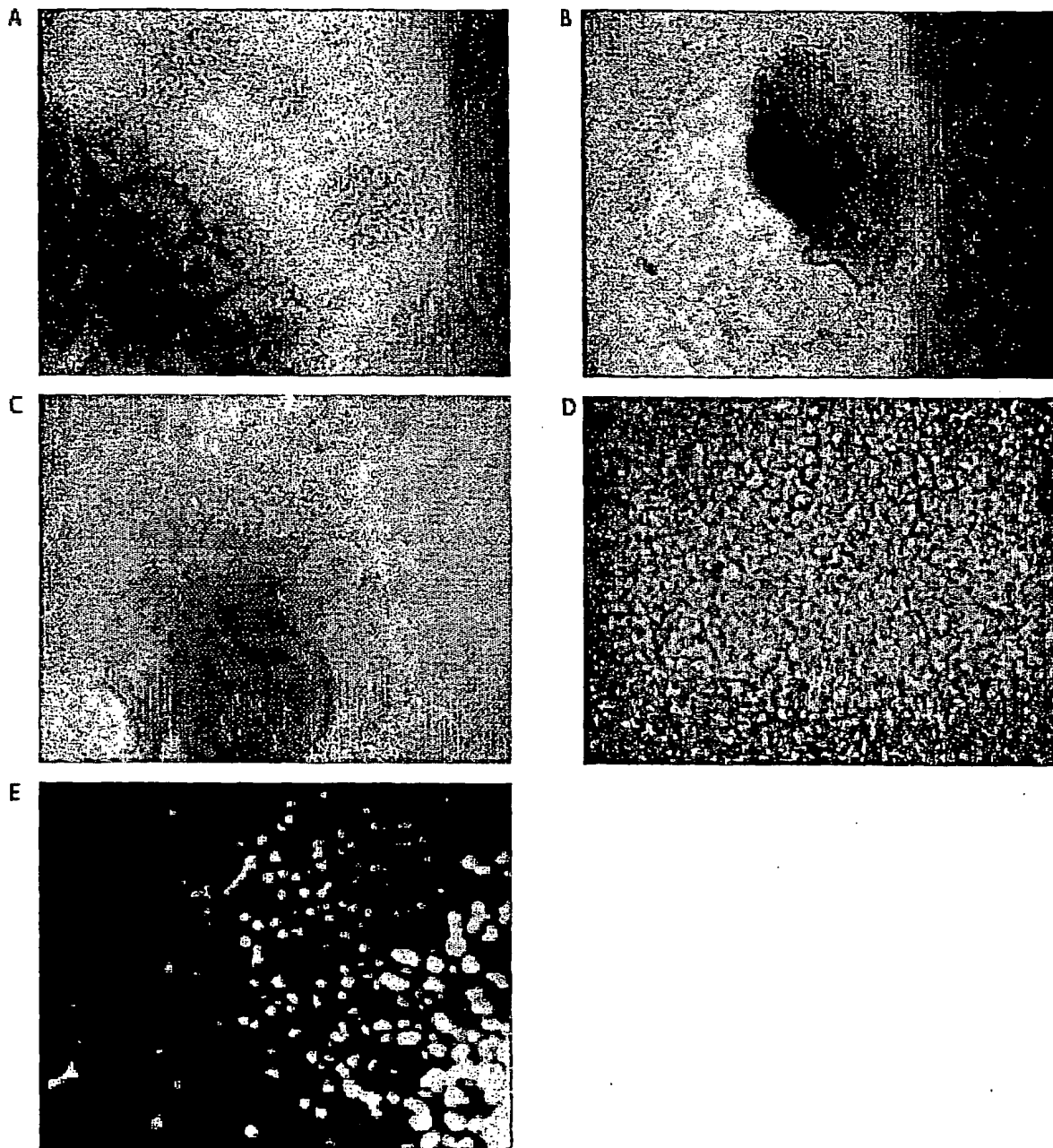
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Figure 9



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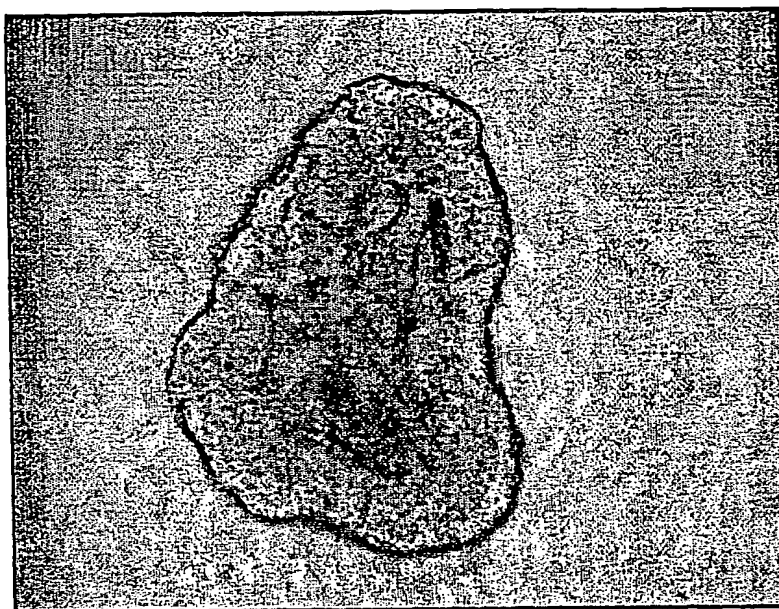
Figure 10



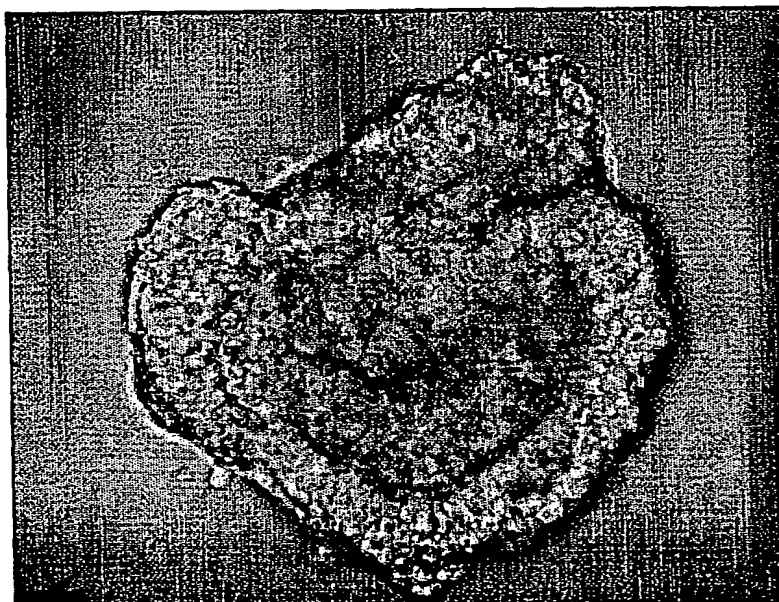
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Figure 11

A

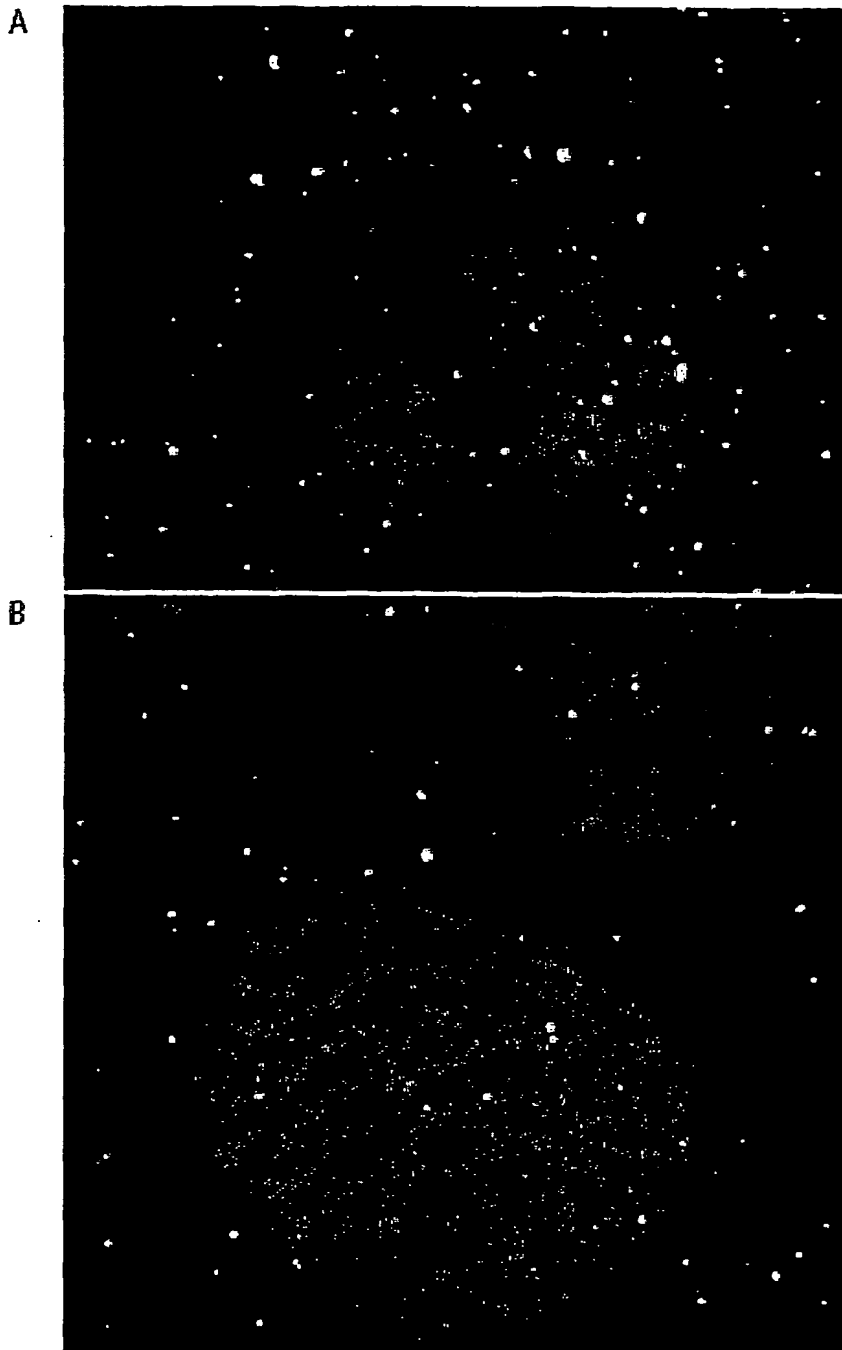


B



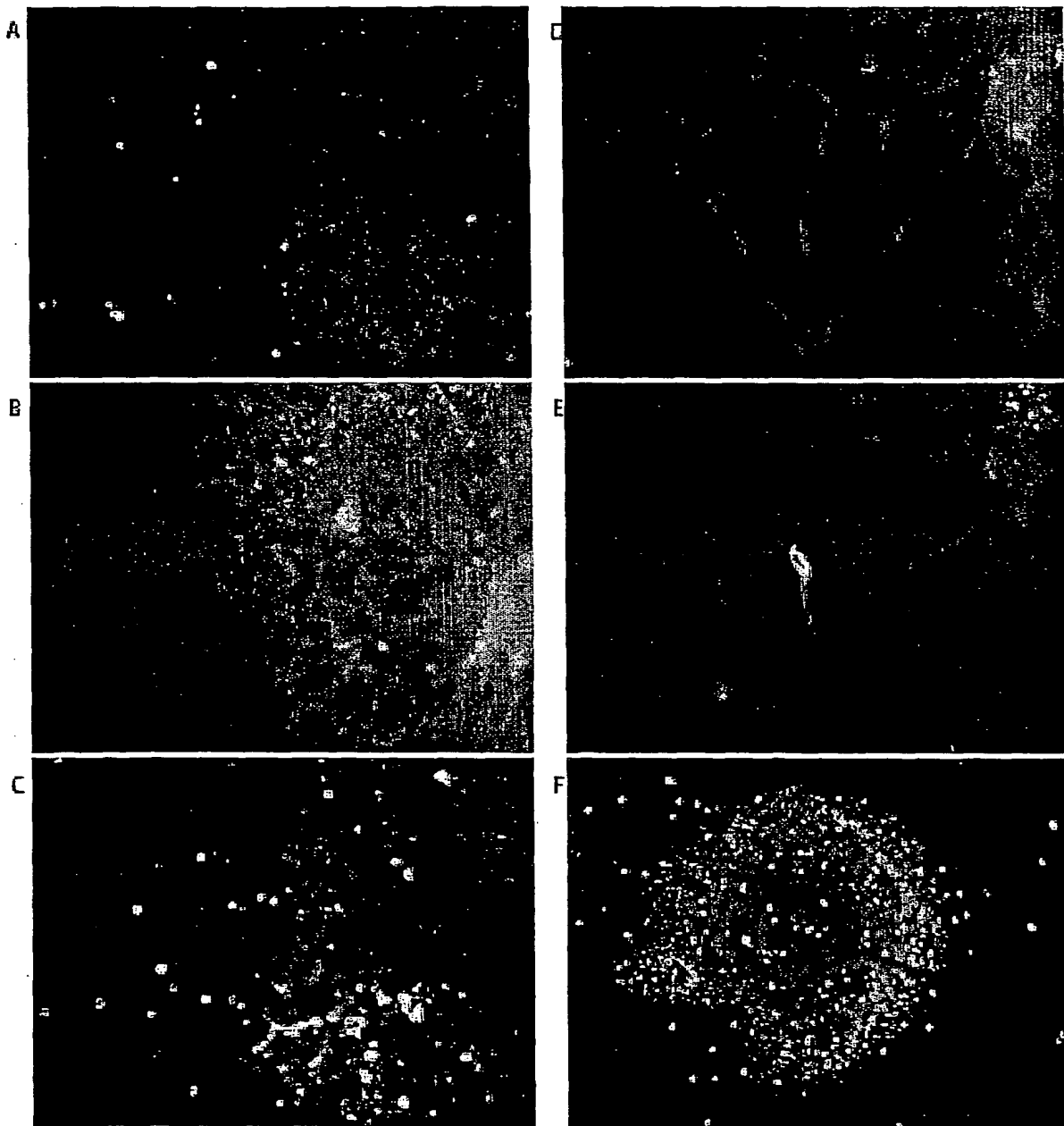
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Figure 12



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Figure 13



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Figure 14

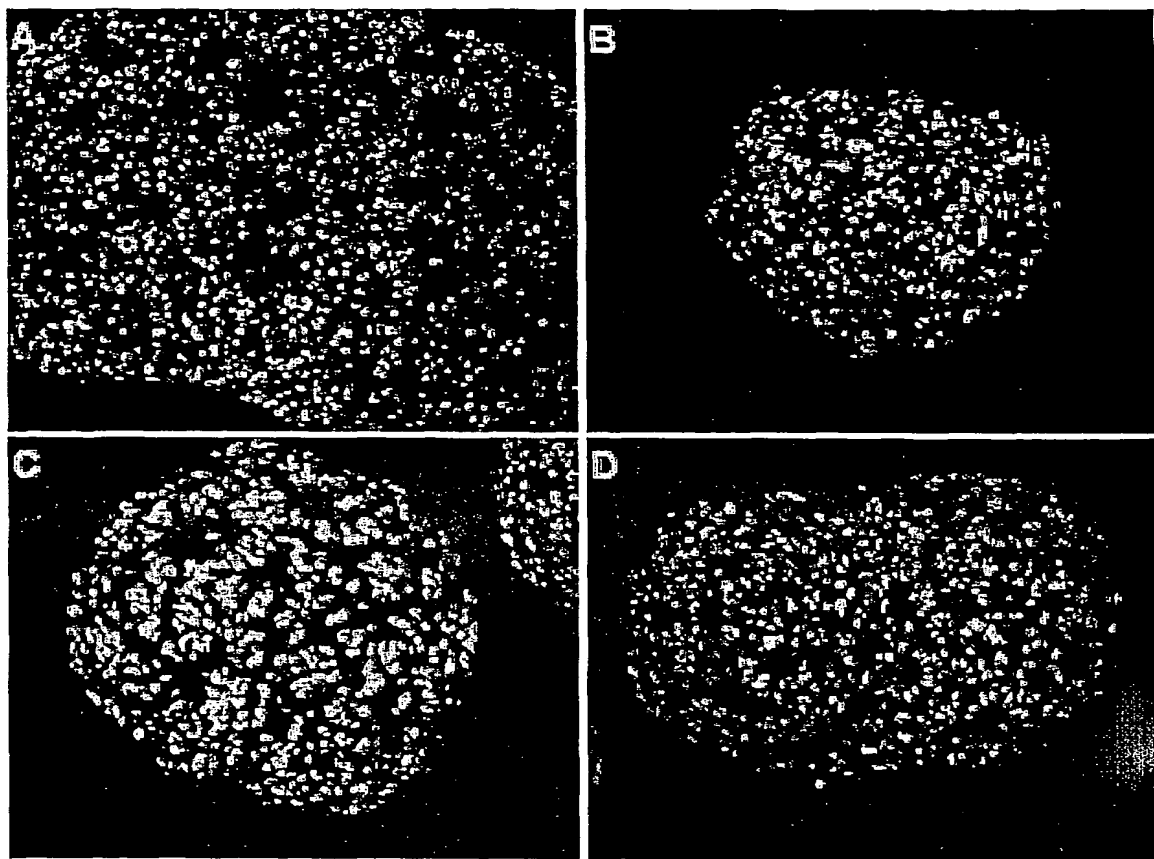


Figure 15

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EB8 NP2 D1 D4

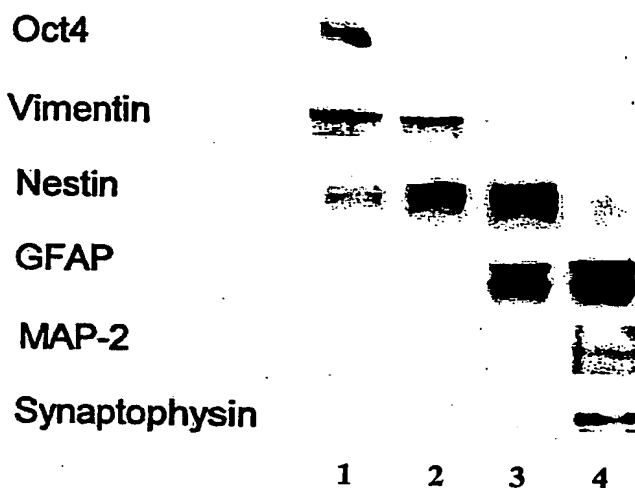


Figure 16

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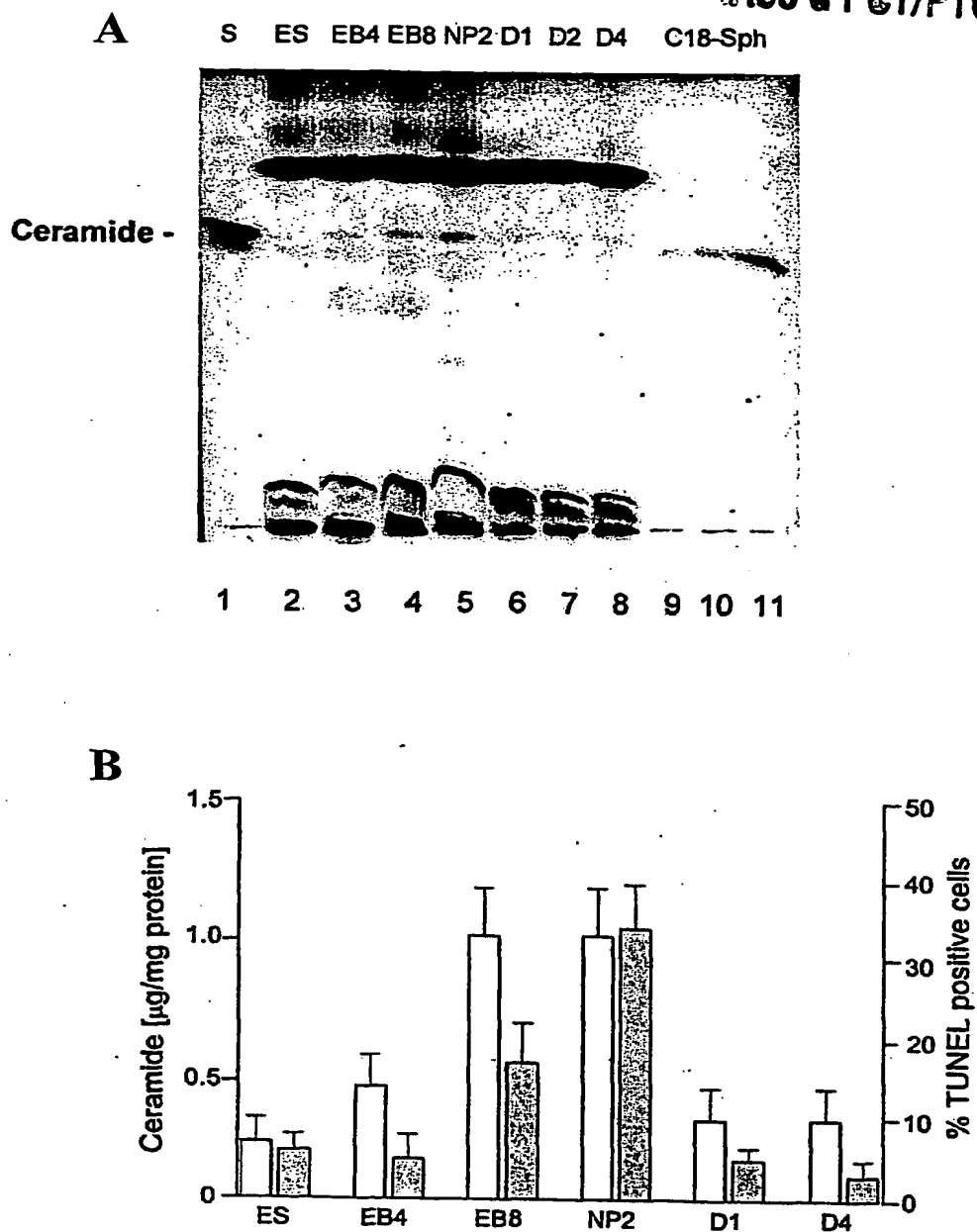


Figure 17

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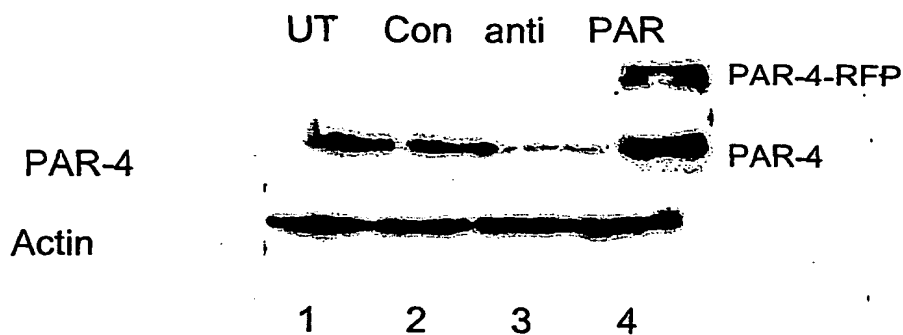


Figure 18

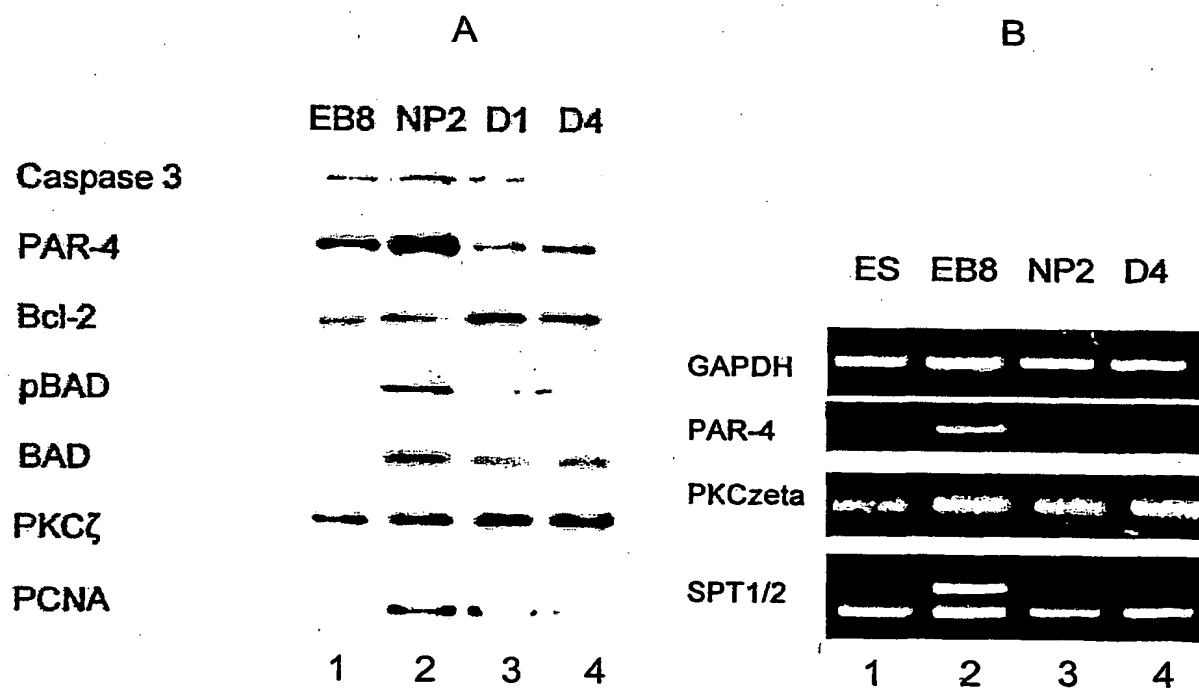


Figure 19

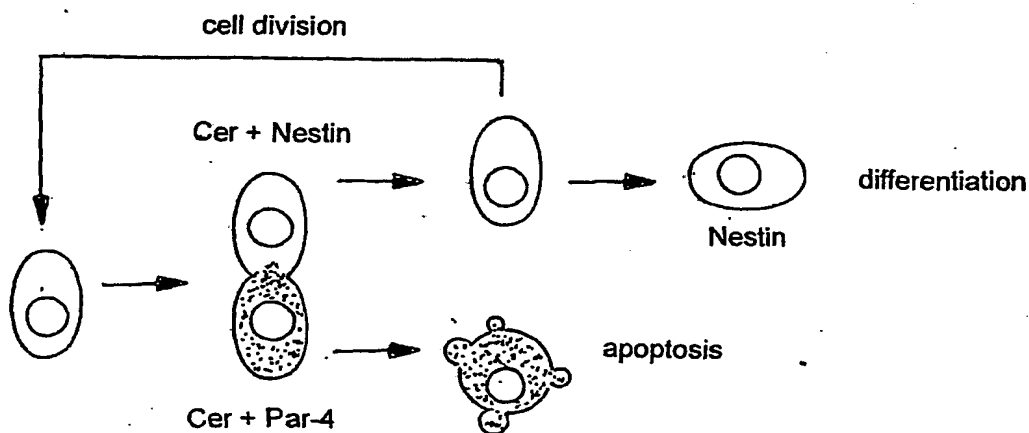
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	TUNEL+	% of TUNEL+	TUNEL-	% of TUNEL-	Total	% of total
	63+/-4		137+/-11		200	
PAR-4	59+/-6	94%	31+/-3	27%	90+/-9	45%
Nestin	5+/-2	8%	107+/-6	78%	112+/-10	56%
PCNA	47+/-5	75%	61+/-5	45%	108+/-9	54%
Ceramide	61+/-6	98%	46+/-4	34%	107+/-9	54%

Figure 20

Marker	Counts	% of total counts (n=200)	% expected if independent
A B		A + B	$f(A+B) = f(A) \times f(B)$
PAR-4 + Nestin	12+/-4	6	25
PAR-4 + Ceramide	62+/-7	31	24
PCNA + Nestin	50+/-7	25	30

Figure 21



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